# I. OBJECTIVES AND STRATEGIES

**GOAL:** Rock Hill Schools will strive to increase student achievement through the use of technology, including assistive technology, by maximizing community involvement and community partnerships.

# **OBJECTIVES**

# 4.4 District will ensure that all its buildings are linked by the Internet to the State Library's DISCUS databases and to the Web sites of universities, museums, and other institutions to facilitate virtual communication between home, school, and community.

### **STRATEGIES**

Host an electronic list through the district and school websites

# II. ACTION LIST

- District and schools will initiate and increase community collaborations that give students, teachers, and members of the local community increased access to and training in technology.
- District and schools will publish school lab schedules showing after-hours technology access and training.
- District will maintain logs of professional development, community offerings, and internship opportunities in technology.
- District will publicize successful collaborations with outside entities.
- District will post successful technology grant applications on the Internet for others to use as models.
- District will develop lists of possible partner organizations, institutions, and initiatives.
- District surveys will provide increased access and use of school facilities for after-hours technology training.
- District will develop flexible technology training schedules.

# III. IMPLEMENTATION ACTION STEPS

# **Rock Hill Schools (District)**

- Submit a technology plan, including a professional development plan, to the Office of Technology for approval
- Encourage flexible lab, media center, and classroom hours among schools
- Initiate partnerships with community entities to create greater access to technology and a community learning environment
- Include members of the community in writing technology grants to develop and fund better teaching and learning through technology

# Rock Hill Schools (Schools)

- Submit a technology plan to the local district office
- Distribute parent and community information
- Develop, implement, and publicize flexible lab, media center, and classroom hours, including opportunities for community
- Initiate partnerships with community entities to create greater access to technology and a community learning environment
- Include members of the community in writing technology grants to develop and fund better teaching and learning through technology

# IV. FUNDING CONSIDERATIONS

# **Rock Hill Schools (District)**

- Evaluation experts to help show impact of community programs and initiatives
- High-quality sustained community training technology programs offered via innovative delivery methods
- Community and apprentice internships
- Facility operation beyond the regular school day
- District survey administration, collection and analysis, and reporting
- Grant-writing experts and workshops

# **Rock Hill Schools (Schools)**

- Evaluation experts to help show the impact of community programs and initiatives
- High-quality sustained community training technology programs offered via innovative delivery methods
- Community internships
- Facility operation beyond the regular school day
- School survey administration, collection and analysis, and reporting

		V. EVALUATIO	N				
Objectives	Possible	Possible Data Sources to Be Used for	Outcomes (Include "action list" items achieved.)				
Objectives	Baseline Data	Ongoing Evaluation and End-of-Program Report	JAN. 2010	JAN. 2011	JAN. 2012	JAN. 2013	JAN. 2014
4.1 District will establish community technology partnerships and collaborations by providing tools, resources, and training that support student transition, achievement, and outcomes. (The term community includes parents, businesses, state and local agencies, nonprofit groups, and institutions of higher education.)  4.2 District will fully utilize all available resources by fostering collaboration and cooperation among state-supported organizations, institutions, and initiatives.  4.3 District will provide after-hours training and community access to labs, media centers, and classrooms.  4.4 District will ensure that all its buildings are linked by LAN, WAN, and/or the Internet to the State Library's DISCUS databases and to the Websites of universities, museums, and other institutions to facilitate virtual communication between home, school, and community.	Statewide achievement test scores      Lab, media center, and classroom schedules      SDE Technology Counts survey      School technology plans      Documentation of offerings provided via innovative delivery methods	<ul> <li>Statewide achievement test scores</li> <li>Lab, media center, and classroom schedules</li> <li>SDE Technology Counts survey</li> <li>School technology plans</li> <li>Observations and interviews</li> <li>District and school Website information</li> <li>Documentation of offerings provided via innovative delivery methods</li> <li>Districts and school list of grants and community partnerships</li> </ul>					

# **TECHNOLOGY DIMENSION 5**

# **SUPPORT CAPACITY**

# **GOAL**

Rock Hill Schools will expand and support technology resources to assist educators and learners in meeting state academic standards.

# SNAPSHOT OF CURRENT TECHNOLOGY USE

Currently, Rock Hill Schools is working to expand and support its technology in an effort to assist educators and learners in meeting state academic standards. Rock Hill Schools prides itself on a well-developed network infrastructure. With over 80% of teachers meeting rigorous competency standards, the district is having a difficult time meeting demand for new instructional equipment, refreshing older equipment and providing an on-time delivery of training.

# **OPERATIONAL PLAN**

# I. OBJECTIVES AND STRATEGIES

**GOAL:** Rock Hill Schools will expand and support technology resources to assist educators and learners in meeting state academic standards.

### **OBJECTIVES**

5.1 District will ensure that all students, including those with special needs, and teachers have access to electronic information resources.

# **STRATEGIES**

- A. Maintain a technology inventory that includes the status of current network/Internet access, workstations and other devices available for access, software applications available for addressing state academic standards, peripherals, and other factors related to universal access to network resources
- B. Conduct needs assessments (1) to identify required network components, workstations, and other devices needed for network access, including assistive technology devices, and (2) to identify and evaluate software applications required to meet academic needs as well as peripherals and other resources required to create universal access to network resources
- C. Create a district strategic plan for acquiring and implementing the technology, including assistive technology, that is required to provide universal access to network resources
- D. Develop the district strategic plan with input from all segments of the school community—students, teachers, therapists, administrators, parents, community members, community agencies, and local businesses—and include in the plan a mechanism for review and evaluation of the plan
- E. Seek school and district funding from available local, state, and federal sources, including Erate, grants, and bonds
- **5.2** District will ensure that its schools have an integrated, secure network infrastructure with dynamic
- A. Communicate in the district technology plan a vision for multimedia infrastructure designed to support instruction

# I. OBJECTIVES AND STRATEGIES

**GOAL:** Rock Hill Schools will expand and support technology resources to assist educators and learners in meeting state academic standards.

### **OBJECTIVES**

bandwidth capacity to support fully converged networks that allow for communication, data collection and distribution, and distance learning.

# **STRATEGIES**

- B. Establish a system for identifying, specifying, prioritizing, and managing equipment for multimedia development in direct support of curricular and professional development objectives
- C. Ensure the installation, maintenance, and support of multimedia-capable teacher stations in classrooms including projectors to support large-group instruction
- D. Research and implement an integrated network infrastructure capable of utilizing all distribution modules
- E. Use bundled distribution packages as a primary means of distribution to manage fully converged networks
- F. Install and maintain networks, virus protection, and Internet filtering according to industry standards by implementing systemic, state-of-the-art network security tools at all levels of access to LANs, WANs, and other networks
- G. Assess LAN/WAN technology currently implemented
- H. Implement a district network management tool that performs automated software installation
- A. Develop district minimum staffing requirements and job descriptions for the positions of networking engineer, networking technician, educational technology director, and support technician
- B. Provide district-level network support
- **5.4** District will implement a disaster recovery plan for all points of failure in LANs and WANs, including

5.3 The school district will have

qualified technical staff.

- A. Ensure that disaster recovery plans are included in the district emergency procedures
- B. Ensure that schools will have electrical

# I. OBJECTIVES AND STRATEGIES

**GOAL:** Rock Hill Schools will expand and support technology resources to assist educators and learners in meeting state academic standards.

# **OBJECTIVES**

redundant data storage, robust automated backup, and immediate hardware recovery.

- 5.5 District will implement an obsolescence and upgrade plan to replace and recycle equipment and software.
- 5.6 District will increase its ability to design Web pages and Web-based instruction that are accessible to students and staff with special needs in accordance with Section 508 of the Rehabilitation Act of 1973 as amended by the Workforce Improvement Act of 1998.

# **STRATEGIES**

distribution systems that provide isolated circuits in all classrooms and redundant power sources for mission-critical equipment

C. Implement a district management application that monitors bandwidth on the LAN and WAN and provides network failure alarms that can be accessed remotely

Ensure that the obsolescence and upgrade plans are included in the district technology plan

Provide training in basic Web page accessibility principles to staff, teachers—and, when appropriate, students—who design Web pages as part of the curriculum

# II. ACTION LIST

- District will have access to a database with a complete technology inventory showing the type of equipment/device, its location, its use, peripherals to which it has access, applications to which it has access, and other relevant information.
- District will maintain a needs-assessment document showing technology-based resources and applications required to address the mission of the district, including networking, hardware/devices, and software applications as well as assistive technology.
- District will publish a procedure for the perpetual review of equipment used in multimedia development processes. Reviews should quantify equipment and processes by their impact on teaching and learning.
- District will maintain a strategic plan for acquiring and implementing technology for universal access to network resources. This document should show the strategies for addressing the identified needs, the persons responsible for addressing and completing each strategy, and the resources/funds necessary to fully implement the strategies.
- District emergency procedures will include a disaster recovery plan.
- District technology plans should include an obsolescence and upgrade plan, including strategies to refurbish, resell, recycle, or donate obsolete devices.
- District policies outlined in district technology plans should include security accountability, virus protection, and Internet filtering guidelines.
- District technology plans should provide for outlets and amperage and for meeting industry standards and building codes.
- District will use professional discussion groups to share the results of their research about the implementation of integrated network infrastructures and bundled distribution practices.
- District will use the SDE Technology Counts on-line survey to report on its use of network management tools.
- District will ensure that new school construction provides for isolated power in each classroom, computer lab, telecommunications closet, and work area.
- District will provide UPS (uninterruptible power supply) systems for all critical equipment.
- District will have a network manager.
- District staff, teachers, and students will be aware of basic Web accessibility guidelines when designing Web pages.
- District will designate a Web accessibility resource person to coordinate training and information sharing among district personnel.

# III. IMPLEMENTATION ACTION STEPS

# **Rock Hill Schools (District)**

- Maintain technology inventories
- Conduct needs assessments to identify required technology
- Create a strategic technology plan that includes strategies for acquiring, managing, and implementing required technology, including assistive technology
- Implement a district disaster recovery plan and an obsolescence and upgrade plan
- Seek funding from local, state, and federal sources
- Encourage and publicize flexible access schedules
- Create a vision for a multimedia infrastructure
- Encourage schools to provide multimedia-capable workstations
- Research and implement an integrated network infrastructure
- Use bundled distribution packages to manage fully converged networks
- Install and maintain secure networks
- Employ staff for adequate network maintenance and support
- Implement a district management application that monitors bandwidth on the LAN and WAN
- Ensure that schools have adequate electrical distribution systems
- Provide schools with the necessary guidance and training in creating Web pages to ensure that electronic information is accessible to students and teachers with special needs

# Rock Hill Schools (Schools)

- Create a strategic technology plan that includes strategies for acquiring and implementing required technology, including assistive technology
- Seek funding from local, state, and federal sources
- Create flexible schedules for access to technology
- Provide multimedia-capable workstations
- Install and maintain secure networks
- Employ staff for adequate network maintenance and support
- Provide adequate electrical distribution systems

# IV. FUNDING CONSIDERATIONS

# **Rock Hill Schools (District)**

- Technology committee meetings to develop products such as the multimedia infrastructure plan and the disaster recovery plan
- Materials to publish an updated technology plan
- Multimedia teacher workstations including data projectors
- Hardware and software to secure all LANs and WANs to comply with district, state, and industry standards
- Equipment inventory assessment program
- Isolated circuit plan
- Support planning
- Technology needs assessments and surveys

# **Rock Hill Schools (Schools)**

- Technology committee meetings to develop products such as the multimedia infrastructure plan and the disaster recovery plan
- Materials to publish an updated technology plan
- Multimedia teacher workstations including data projectors
- Hardware and software to secure all LANs and WANs to comply with district, state, and industry standards
- Support planning
- Technology needs assessments and surveys

# SUPPORT CAPACITY

	V. EVALUATION						
Objectives	Possible	Possible Data Sources to be Used for Ongoing Evaluation and End-of- Program Report	Outcomes (Include "action list" items achieved.)				
Objectives	Baseline Data		JAN. 2010	JAN. 2011	JAN. 2012	JAN. 2013	JAN 201
5.6 District will increase is ability to design Web pages and Web- ased instruction that are occessible to students in staff with special eeds in accordance with ection 508 of the dehabilitation Act of 973 as amended by the Workforce Improvement act of 1998.							

# CUMULATIVE TARGETS AND BENCHMARKS

Note: The following targets and benchmarks will be monitored and adjusted annually for each of the years within the technology plan.

# 2010 - 2014

# **Learners and Their Environment**

- Sixty percent of Rock Hill Schools' students will have created a technology document through the use of a variety of technology tools to complete authentic tasks.
- Sixty percent of Rock Hill Schools' students will possess effective communication skills and technology literacy as evidenced by teacher and student technology presentation.

# **Professional Capacity**

- Ninety percent of Rock Hill Schools' teachers will possess technology proficiency as evidenced by teacher technology proficiency assurance forms.
- One hundred percent of Rock Hill's public schools will have a technology integration specialist who trains teachers and visits classrooms to help teachers integrate technology into the curriculum.

# **Instructional Capacity**

- Seventy percent of the district's teachers will integrate technology and information literacy skills into their teaching of the South Carolina academic standards as evidenced by the technology proficiency assurance forms and teacher web pages.
- Seventy percent of district's students will meet the information literacy and technology skills for their grade level as found on the State Department of Education's performance matrix for information literacy and technology education.

# **Community Connections**

- Seventy percent of the district's schools will provide and document professional
  development training in how to access and use available community resources. Results will be
  reported on the State Department of Education on-line professional development tracking
  system.
- Fifty percent of the district's elementary, middle, and high schools will provide access to technology-related facilities after hours for parents, teachers, and community members.

# **Support Capacity**

• The district will include in its technology plan an assessment of its current technology needs, its current technology inventory, and its current technology support strategies.

# Acknowledgements

All groups listed below contributed either directly or indirectly in the development of the district's technology plan. Listings of the following groups are on file at Rock Hill Schools.

Rock Hill Schools' Board of Trustees

Rock Hill Schools' Superintendent, Dr. Lynn Moody

All students of Rock Hill Schools

All employees of Rock Hill Schools

All members of the district Technology Committee

All instructional technology coaches

All community partners of Rock Hill Schools

# **Bibliography**

EOC. 2001. *Don't Fail Your Children: Long-Range Plan*. Columbia: South Carolina Education Oversight Committee. Available on-line at http://www.state.sc.us/eoc/PDF/EOCLongRangeBooklet.pdf.

South Carolina State Department of Education. *Digital Resources Enabling Achievement and Milestones*. Available from State Department of Education Office of Technology.

ISTE. ISTE's National Educational Technology Standards (NETS). Available on-line at <a href="http://www.iste.org/">http://www.iste.org/</a>

York County Government. Serving Our Citizens Through Technology. Available on-line at <a href="http://www.yorkcountygov.com/">http://www.yorkcountygov.com/</a>

# **Required Appendixes**

# Appendix 1: No Child Left Behind Action Plan

The plan for addressing NCLB, including all district local, state, and federal funds, is included in the recently completed district strategic plan. This plan is filed at Rock Hill Schools District Office. In addition to the district's strategic plan, additional information is listed below:

1. A description of how your district will use federal funds including Enhancing Education through Technology (E2T2) competitive and/or formula funds to improve the academic achievement, including the technology literacy, of all students attending the schools served and to improve the capacity of all teachers teaching in these schools to integrate technology effectively into curricula and instruction.

# Response:

The district's teachers will continue to learn how to integrate technology into all areas of the K12 curriculum creating technology-rich learning plans and guides. Students will utilize technology systems (hardware and application software) as a learning tool.

2. A description of your school district's specific goals for using advanced technology to improve student academic achievement aligned with challenging state academic content and student academic achievement standards. This explanation should include a description of the curriculum and teaching strategies that integrate technology effectively into curricula and instruction, based on an intensive review of relevant research.

# Response:

Through the use of technology in the classroom, students will strive to achieve higher state academic standards, resulting in improved test achievement. Teachers and students will also demonstrate technology proficiency using various tools. The use of technology will create an engaged learning environment. The district provides numerous staff development opportunities available to all staff. On-site professional development is also available through a designated technology coach at each location.

3. A description of the steps your district will take to ensure that all students and teachers in schools served by the local education agency have increased access to educational technology.

# Response:

Each year, technology components are tracked and inventoried to ensure that the needs are addressed in every area. This process will ensure access to technology resources for students and teachers.

4. A description of how your district will use the E2T2 competitive and/or formula funds (including the combining of these funds with monies from other federal, state, and/or local sources) to help ensure that students in high-poverty and high-needs schools have access to technology and to ensure that teachers are prepared to integrate technology effectively into curricula and instruction.

# Response:

All students in every school will have increased access to technology. This access could be in the form of student desktops, lab computers, or mobile laptop carts. As mentioned in item 3, each year the needs are evaluated.

5. A description of how your district will provide ongoing, sustained professional development for teachers, principals, administrators, and school library media personnel serving the local education agency, to further the effective use of technology in the classroom or library media center, including, if applicable, a list of the entities that will be partners with the local education agency involved in providing the ongoing, sustained professional development.

# Response:

The district currently utilizes a variety of professional development materials and courses available to all staff. In addition to graduate-level courses, resources such as Atomic Learning are also available. On-site training is available through local technology coaches.

6. A description of the type and costs of technologies to be acquired for your technology program through the use of E2T2 competitive and/or formula funds, including supporting sources such as services, software, and digital curricula. Your explanation should include specific provisions for interoperability among the components of such technologies.

# Response:

In addition to the various sections listed in this document, the district has utilized these funds for the following projects:

Upgraded Orchard instructional software package and provided training.

Upgraded Project Lead the Way systems.

Addressed various technology needs throughout the district.

7. A description of how your district will integrate technology (including software and other electronically delivered learning materials) into curricula and instruction to support standards-based learning and provide a timeline for such integration.

# Response:

The district has developed a comprehensive plan to integrate technology into the curriculum. There are numerous course offerings as well as on-going staff development opportunities. Technology coaches are also available at each school.

8. A description of how your district will encourage the development and utilization of innovative strategies for the delivery of specialized or rigorous academic courses and curricula through the use of technology, including distance learning technologies, particularly for those areas that would not otherwise have access to such courses and curricula due to geographical isolation or insufficient resources.

# Response:

The district has utilized a variety of online course delivery including WebCT, APEX (virtual high school), and Moodle. We will continue to explore other opportunities and methods of course delivery.

9. A description of how your district will ensure the effective use of technology to promote parental involvement and increase communication with parents, including a description of how parents will be informed of the technology being applied in their child's education. Explain how these strategies will allow parents to reinforce at home the instruction their child receives at school.

# Response:

The district is in the process of developing a customized parent portal to provide access to student information. This portal will allow communication between parents, teachers, and students. In addition to this capability, creating electronic portfolios will also be explored.

10. A description of how programs in your district will be developed, where applicable, in collaboration with adult literacy service providers, to maximize the use of technology.

# Response:

Adult Education provides a variety of programs while incorporating numerous application software systems. Access to technology is provided through multiple computer labs.

11. A description of the process and accountability measures that your district will use to evaluate the extent to which the activities in your technology plan, including those activities funded under the E2T2 program, are effective in integrating technology into curricula and instruction, increasing the ability of teachers to teach, and enabling students to meet challenging state academic content and student academic achievement standards.

# Response:

Please refer to the Evaluation section (V) for each dimension listed in this document.

12. A description of the supporting resources (such as services, software, other electronically delivered learning materials, and print resources) that will be acquired to ensure successful and effective uses of technology.

### Response:

Please refer to the District Needs Assessment section of this document.

# Appendix 2: Teacher Technology Proficiency Proviso Professional Development Plan

The Rock Hill Schools Teacher Technology Proficiency Plan can be found on the district's website at the following URL:

http://www.rock-hill.k12.sc.us/departments/staffdevelopment/teachertechnologyproficiencyproviso.aspx

# **Appendix 3: Acceptable Use Policy**

The Rock Hill Schools Acceptable Use Policy can be found at the following URL: <a href="http://www.rock-hill.k12.sc.us/staff/districtpolicies.aspx">http://www.rock-hill.k12.sc.us/staff/districtpolicies.aspx</a> Please reference the G-Personnel section.

# Appendix 4: How E-Rate Areas Have Been Addressed

The plan for addressing E-Rate areas is included in previous sections and appendixes of this document. In addition to these sections, Rock Hill Schools provides funding for non-E-rate items through an annual technology bond.

# Appendix 5: Report on Last Year's Progress Toward Goals, Objectives, Strategies, Benchmarks, Actions, and Outcomes

Please refer to the district's previous technology plan, which includes goals, objectives, and status updates at the following URL:

http://www.rock-hill.k12.sc.us/departments/technology/informationtechnology/technologyplan.aspx

# DISTRICT TECHNOLOGY PLAN CHECKLIST

Please complete the shaded box on page 3 of this checklist form and return all three sheets as the cover pages of the completed technology plan.

# 

This page must contain the following:

- · district name,
- name and signature of district superintendent,
- name and signature of technology coordinator,
- mailing address, phone and fax numbers, and e-mail address of district technology coordinator,
- · district home page URL, and
- effective dates covered by the plan or the year covered by the annual update.

# District Profile

This section must include the following:

- number of schools in the district.
- number of students enrolled in district schools,
- percentage of students eligible for free and reduced lunches,
- number of English as a Second Language (ESL) students,
- number of dropouts,
- graduation rate, and
- district E-rate discount.

# 

This section must be a concise description of the entire technology plan.

# District Needs Assessment

This section must describe the district's current technology needs, current technology inventory, and current technology support strategies. All goals should specifically address your district's needs.

# District Vision and Mission Statements

These overarching statements should address the district's needs, including assistive technology needs, and should be aligned with the 2003-08 state technology plan as well as the No Child Left Behind legislation.

# Plans for the Five Individual Technology Dimensions

The narrative of the district's plans for the individual Technology Dimensions *must* be organized on the basis of the following five sections, which *must be labeled and ordered as shown here*:

- Technology Dimension 1: Learners and Their Environment
- **Technology Dimension 2: Professional Capacity**
- Technology Dimension 3: Instructional Capacity
- **9 Technology Dimension 4: Community Connections**
- Technology Dimension 5: Support Capacity

In each of the above sections, the narrative for the technology dimension *must* be organized on the basis of the following seven sections, which *must be titled and lettered as shown here*:

- A. Snapshot of Current Technology Use in District
- B. Overall Goal for This Dimension
- C. Objectives, Strategies, and Action List to Reach Goal
- D. Implementation Action Steps for Districts and Schools
- E. Funding Considerations for District and Schools
- F. Evaluation of Objectives (including baseline data sources and ongoing data sources)
- G. Current Best Practices in District (if applicable)

# © Cumulative Benchmarks

This section must contain a list of benchmarks expected to be met during the year. Include a timeline and method for assessing benchmarks periodically.

# Acknowledgements

This section must contain a list stakeholders that shows a wide diversity of school and community members who contributed to the planning process.

# Bibliography

This section should provide full publication information and specific page references for all secondary sources utilized.

# Required Appendixes

# Appendix 1: No Child Left Behind Action Plan

Provide narratives for each of the twelve items in part C of the "Guidelines for District Technology Plans" section of the *South Carolina State Technology Plan 2003-08*.

- Appendix 2: Teacher Technology Proficiency Proviso Professional Development Plan
   Guidelines for district professional development plans can be found at
- Appendix 3: Acceptable Use Policy
- Appendix 4: How E-Rate Areas Have Been Addressed

See part B of the "Guidelines for District Technology Plans" section of the South Carolina State Technology Plan 2003-08 for the five E- rate areas.

Appendix 5: Report on Last Year's Progress toward Goals, Objectives, Strategies, Benchmarks, Actions, and Outcomes

# Rock Hill School District Three Annual Technology Budget Fiscal Year 2010 - 2014 Addendum to Technology Plan

Funding Source	Description	Budgeted Amount
General Fund		
100-266-0345-001-080	Technology - Server Maintenance	\$ 15,500.00
100-266-0445-000-080	Technology Supplies	28,000.00
100-266-0545-000-080	Technology Equipment	<u>25,000.00</u> 68,500.00
Technology Bond 2010 - 2014		
562-253-0345-000-084	Technology - Licensing/Maintenance	175,000.00
562-253-0445-000-084	Technology Supplies	25,000.00
562-253-0545-000-084	Technology Equipment	<u>2,200,000.00</u> 2,400,000.00
	8	
Other Funds		
Various Accounts	Technology - Software Licensing Docuscan/Accounting Compass Learning SAS/Testview/Destiny/Apex	225,000.00
	Total	\$ 2,693,500.00

Technology coordinator's name:	Joel Whitesides	
Technology coordinator's signature:	Joel Whiteveles	3-25-09 Date signed
Superintendent's name:	Lynn Moody	
Superintendent's signature:	Shar F. Mordy	3.28-0°